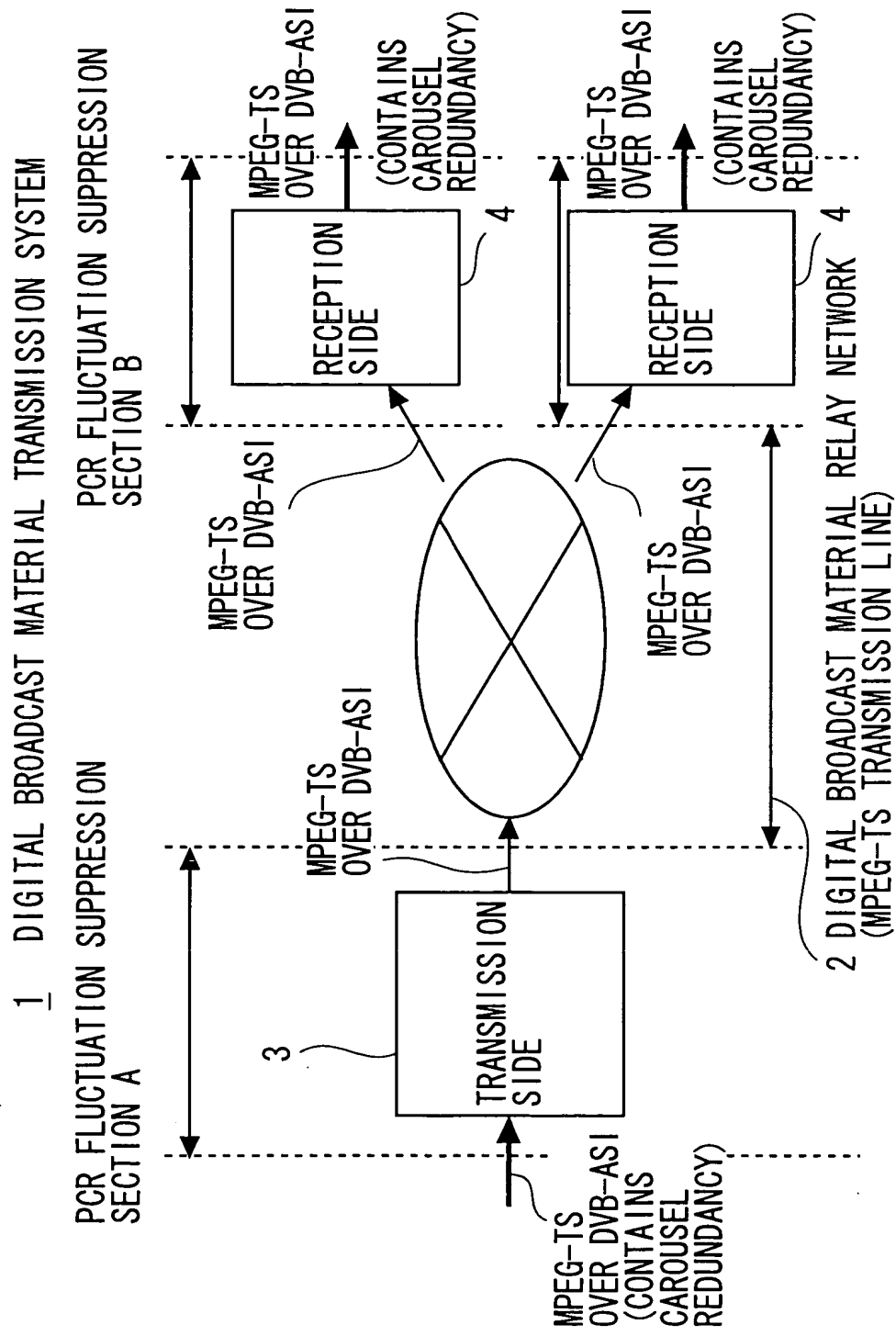


FIG. 1



3, 4 :DIGITAL BROADCAST MATERIAL TRANSMITTER

FIG. 2

3, 4 DIGITAL BROADCAST MATERIAL TRANSMITTER

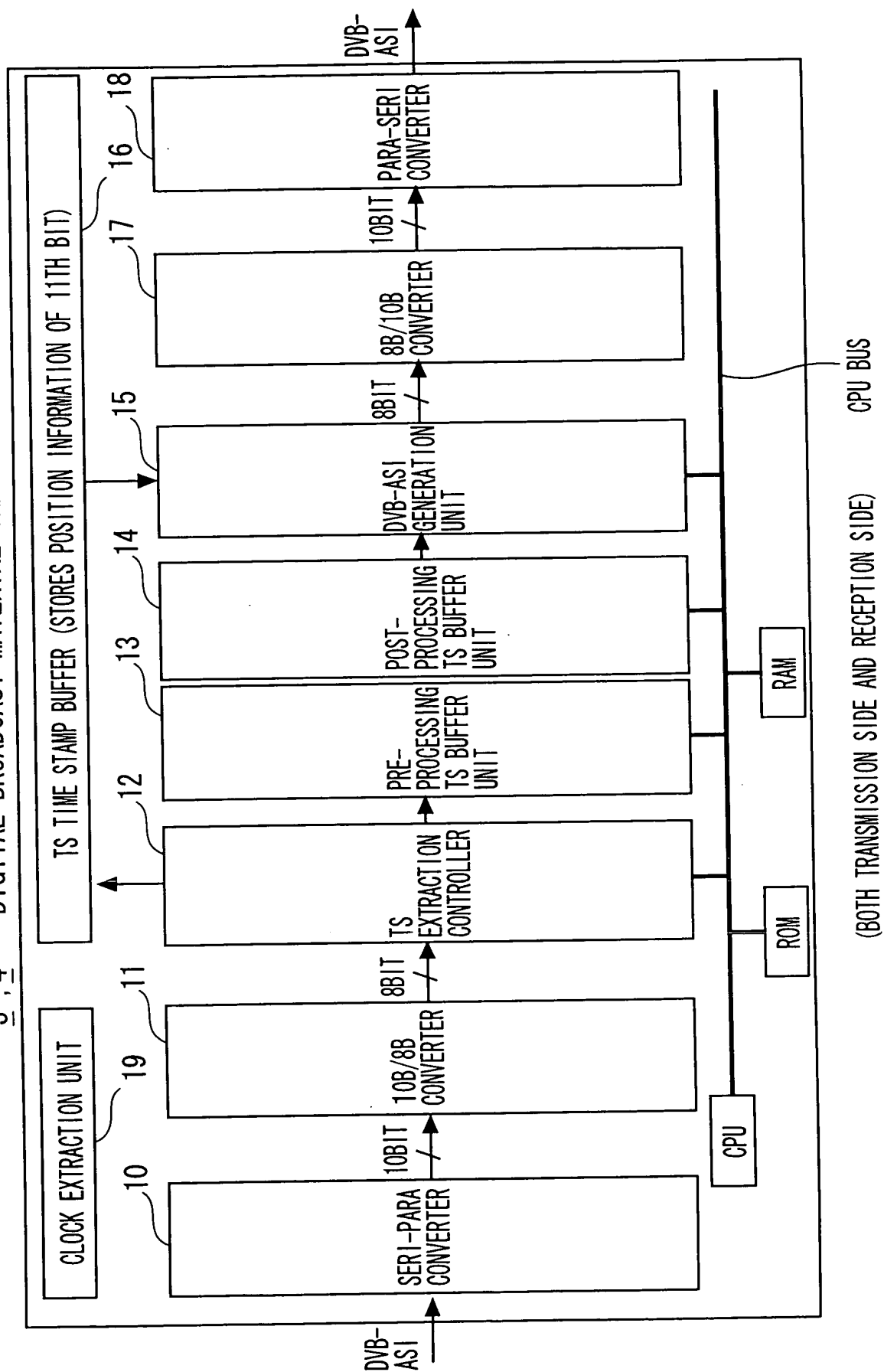


FIG. 3

SPI : SYNCHRONOUS PARALLEL INTERFACE
SSI : SYNCHRONOUS SERIAL INTERFACE SYNCHRONOUS
ASI : ASYNCHRONOUS SERIAL INTERFACE

FIG. 4

LAYER 2: TRANSPORT PROTOCOL (MPEG2-TS)
LAYER 1: DATA ENCODING (8B/10B CONVERSION)
LAYER 0: PHYSICAL REQUIREMENTS (270Mbps, OPTICAL or COAXIAL)

FIG. 5

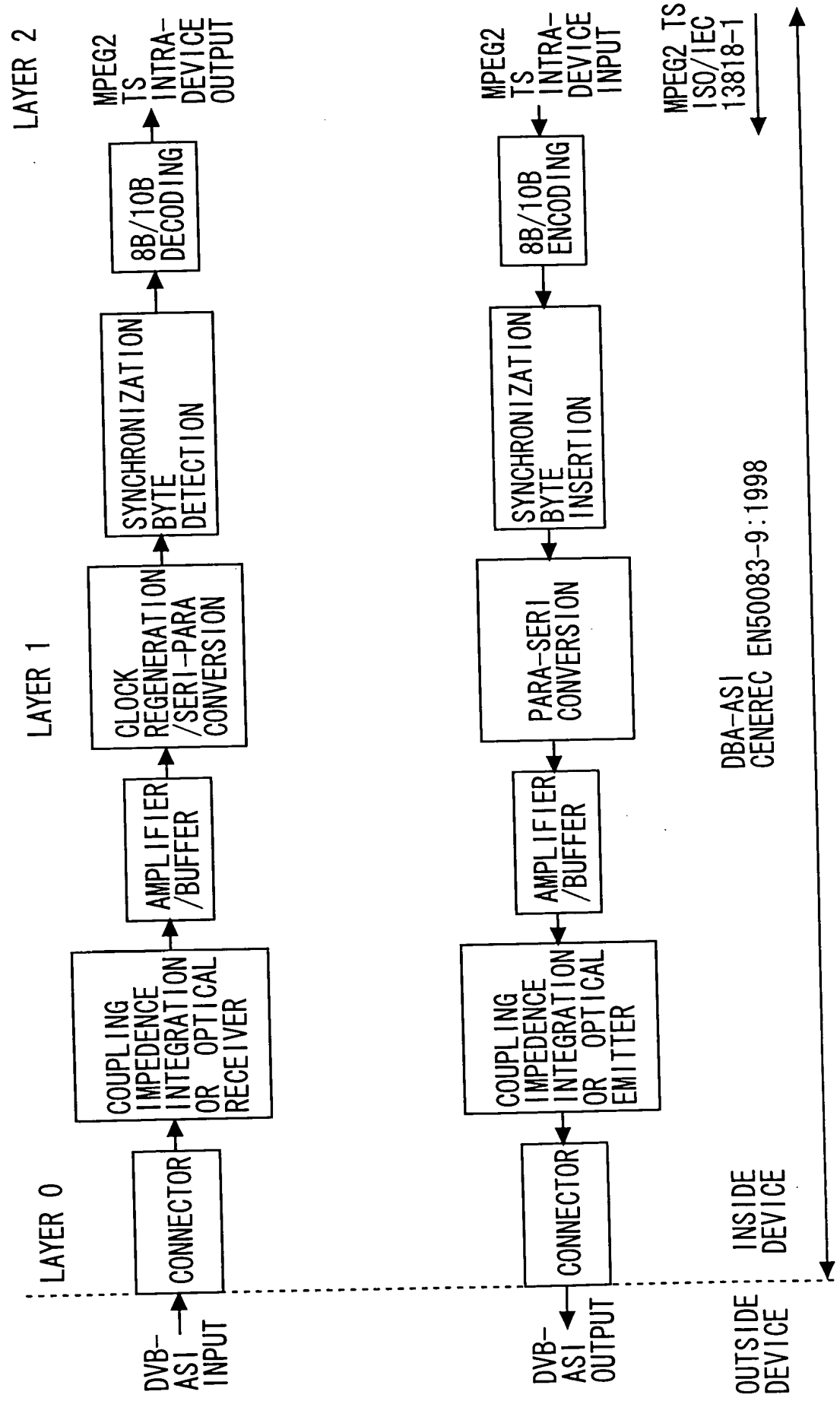
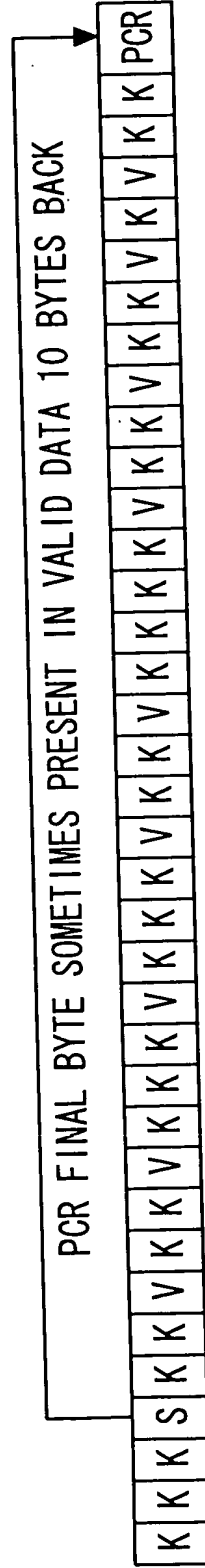
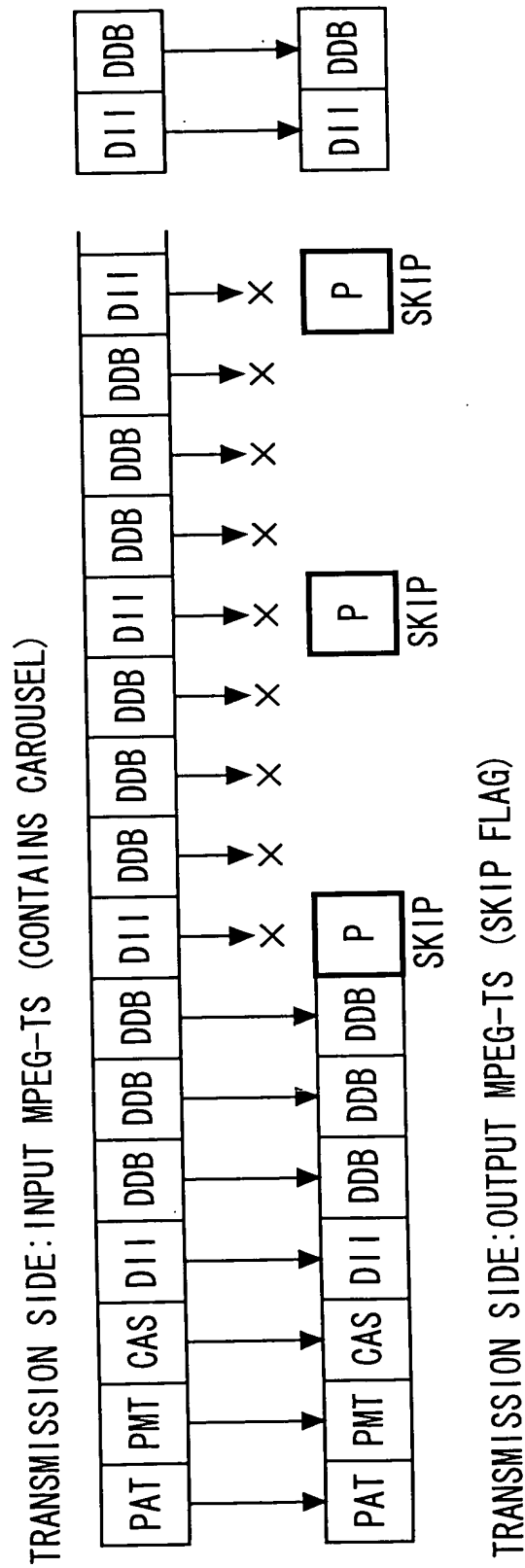


FIG. 6



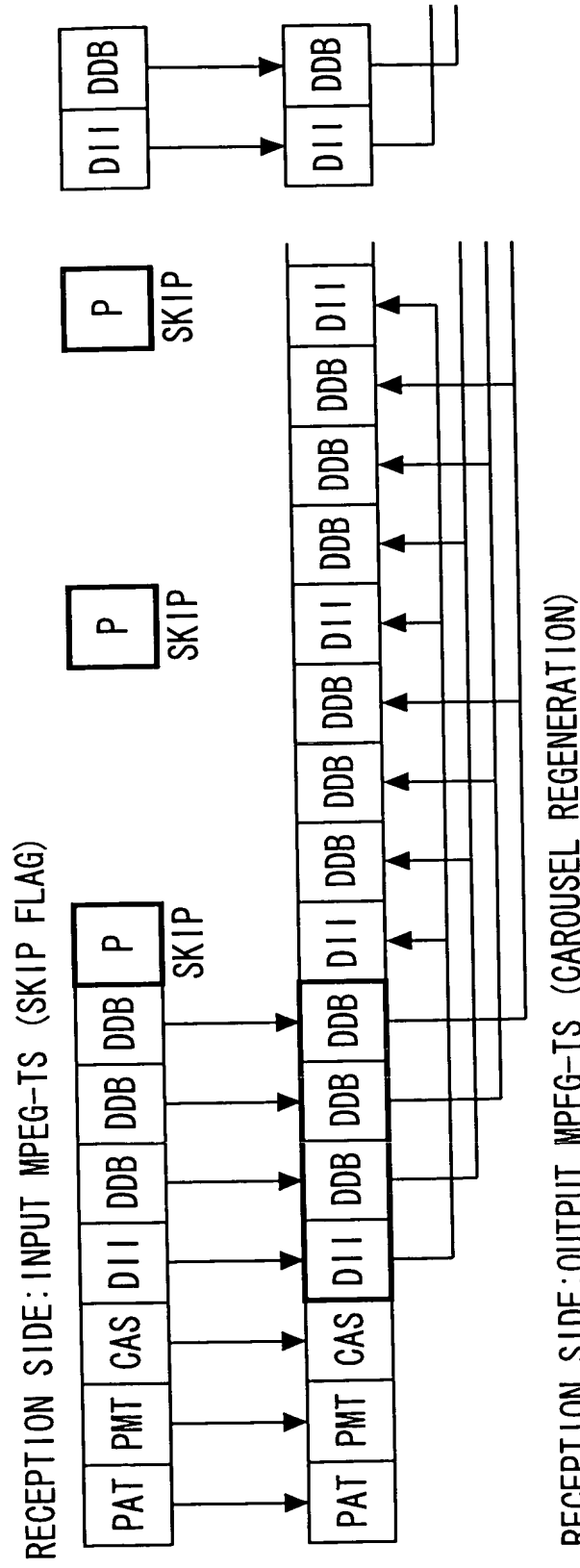
K :K28.5 AS DETERMINED BY DVB-ASI
 S :SYNC. IN TRANSPORT PACKET HEADER
 V :VALID DATA IN TRANSPORT PACKET
 PCR:10TH BYTE VALID DATA COUNTING FROM S, WHERE THERE COULD BE ADAPTATION FIELD PCR
 FINAL BYTE OF TRANSPORT PACKET HEADER

FIG. 7



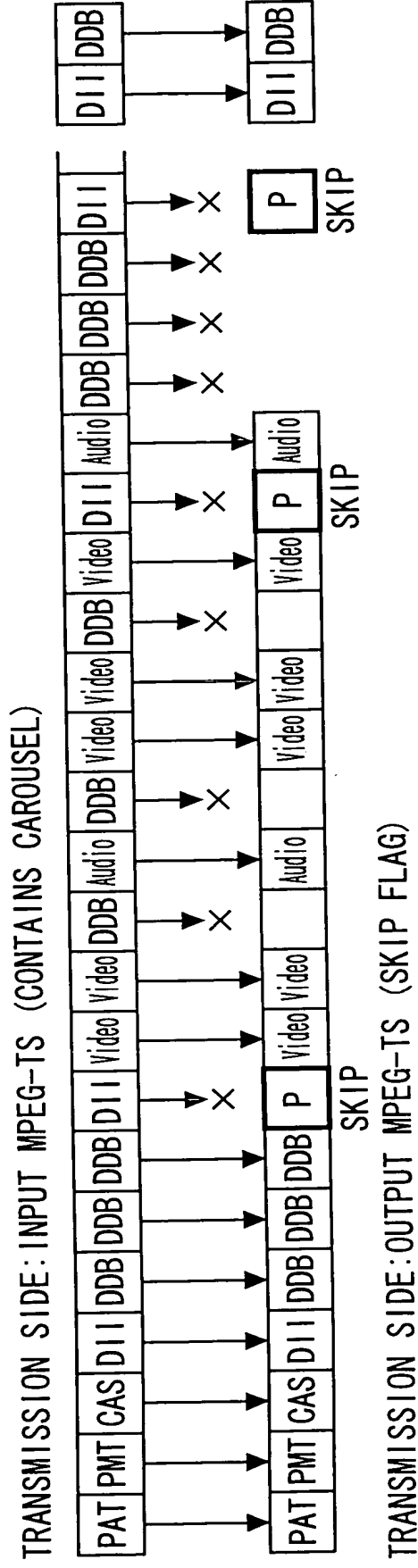
PAT: PROGRAM ASSOCIATION SECTION
PMT: TS PROGRAM MAP SECTION
CAS: CONDITIONAL ACCESS SECTION
P: PRIVATE SECTION
DII: DSM-CC SECTION (CONTAINS DownloadIndication)
DDB: DSM-CC SECTION (CONTAINS DownloadDataBlock)

FIG. 8



PAT: PROGRAM ASSOCIATION SECTION
PMT: TS PROGRAM MAP SECTION
CAS: CONDITIONAL ACCESS SECTION
P: PRIVATE SECTION
DII: DSM-CC SECTION (CONTAINS DownloadIndication)
DDB: DSM-CC SECTION (CONTAINS DownloadDataBlock)

FIG. 9



PAT: PROGRAM ASSOCIATION SECTION
PMT: TS PROGRAM MAP SECTION
CAS: CONDITIONAL ACCESS SECTION
D11: DSM-CC SECTION (CONTAINS DownloadInfoIndication)
DDB: DSM-CC SECTION (CONTAINS DownloadDataBlock)
Video: PES Packet (Video)
Audio: PES Packet (Audio)

FIG. 10

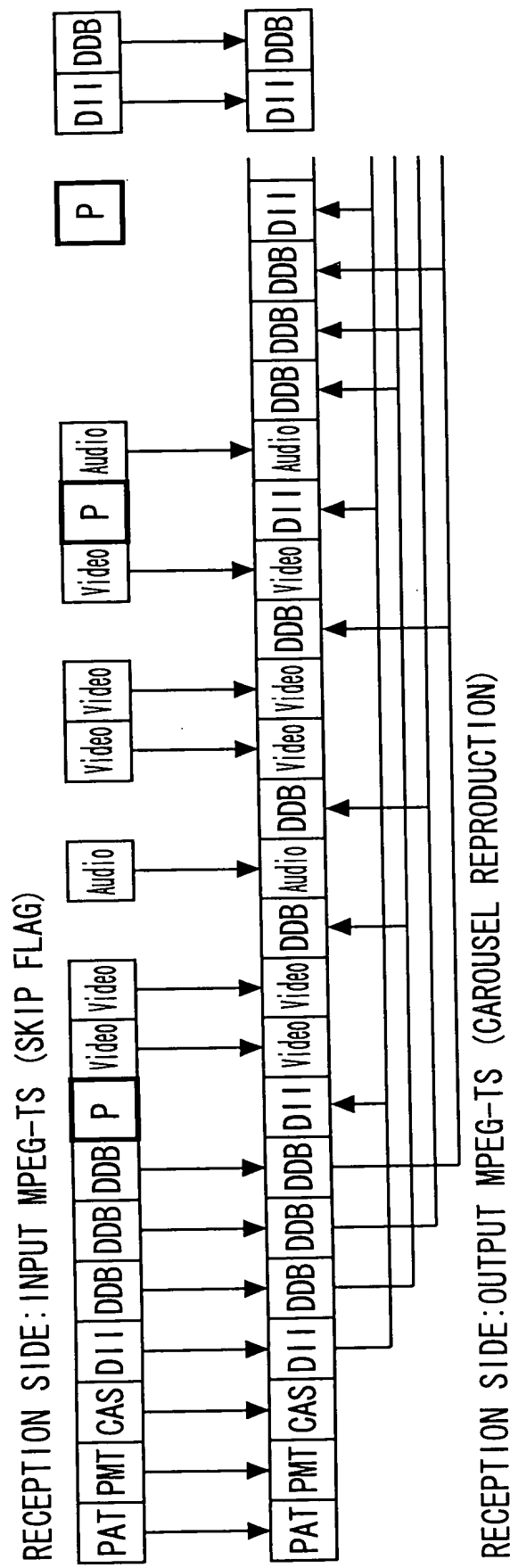


FIG. 11

```
[CAROUSEL_SKIP_DESCRIPTOR] ( ) {  
    dsscriptor_tag  
    dsscriptor_length  
    CurrentSkipCount  
    TotalSkipCount  
    for (i=0; i<N; i++) {  
        stuffing_byte  
    }  
}
```

8	uimsbf
8	uimsbf
8	uimsbf
32	uimsbf
8	bslbf

FIG. 12

```
[STUFFING DESCRIPTORS] ( ) {  
    dsscriptor_tag  
    dsscriptor_length  
    for (i=0; i<N; i++) {  
        stuffing_byte  
    }  
}
```

8	uimbsf
8	uimbsf
8	bslbf

FIG. 13

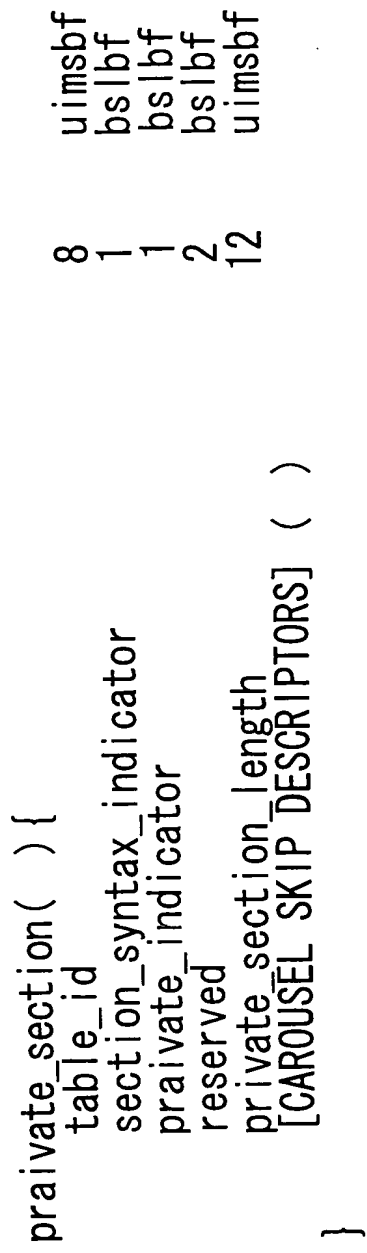


FIG. 14

```
private_section( ) {  
    table_id  
    section_syntax_indicator  
    private_indicator  
    reserved  
    private_section_length  
    [SUTFFING DESCRIPTORS] ( )  
}
```

8	uimbsf
1	bslbf
1	bslbf
2	bslbf
12	uimbsf

FIG. 15A

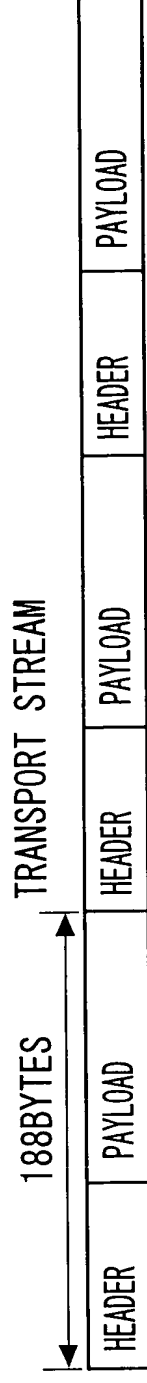


FIG. 15B

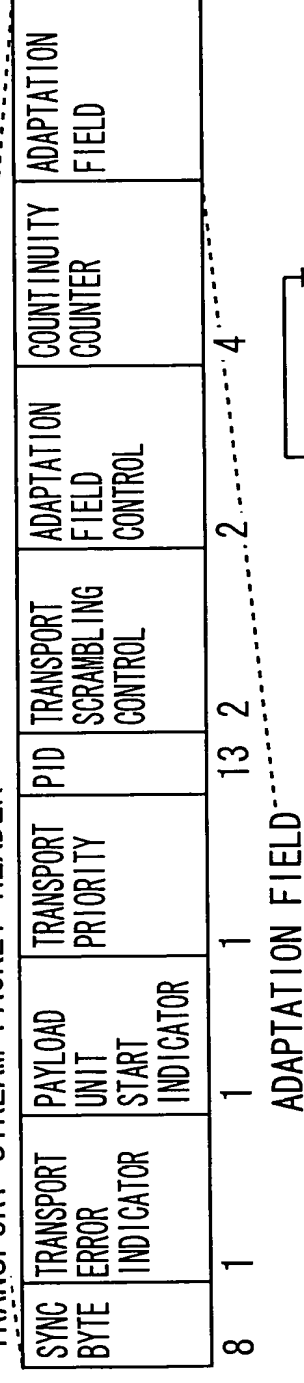


FIG. 15C

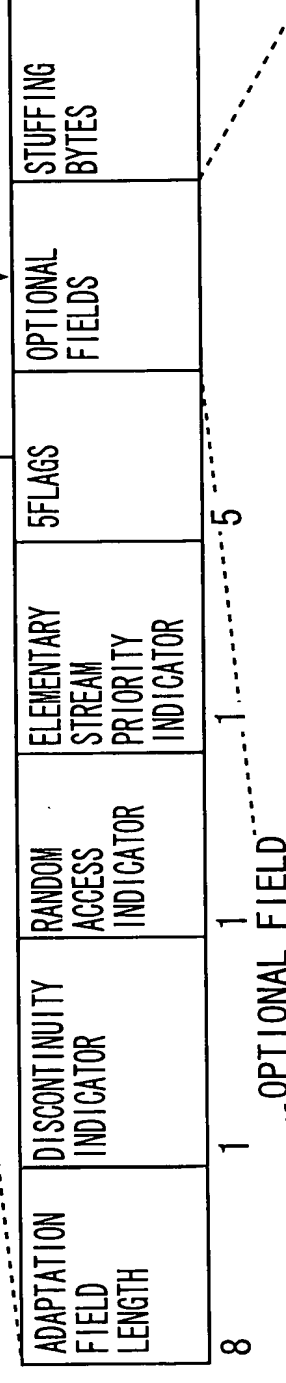


FIG. 15D

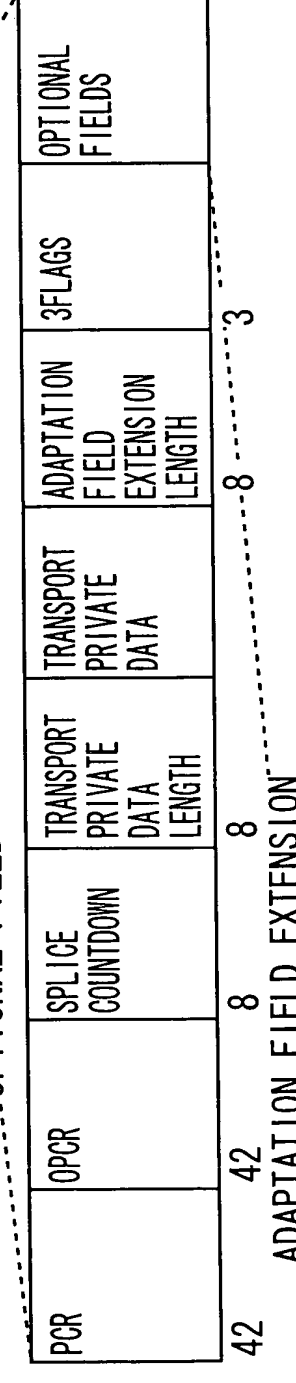


FIG. 15E

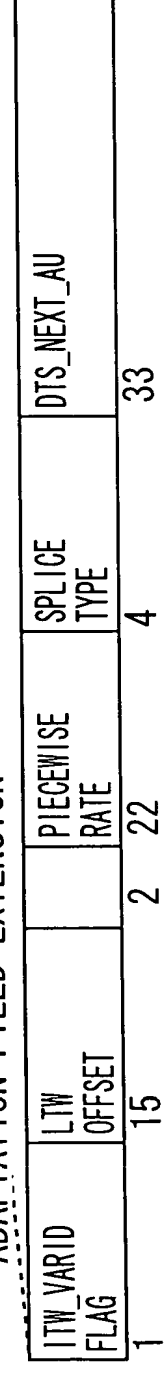


FIG. 16

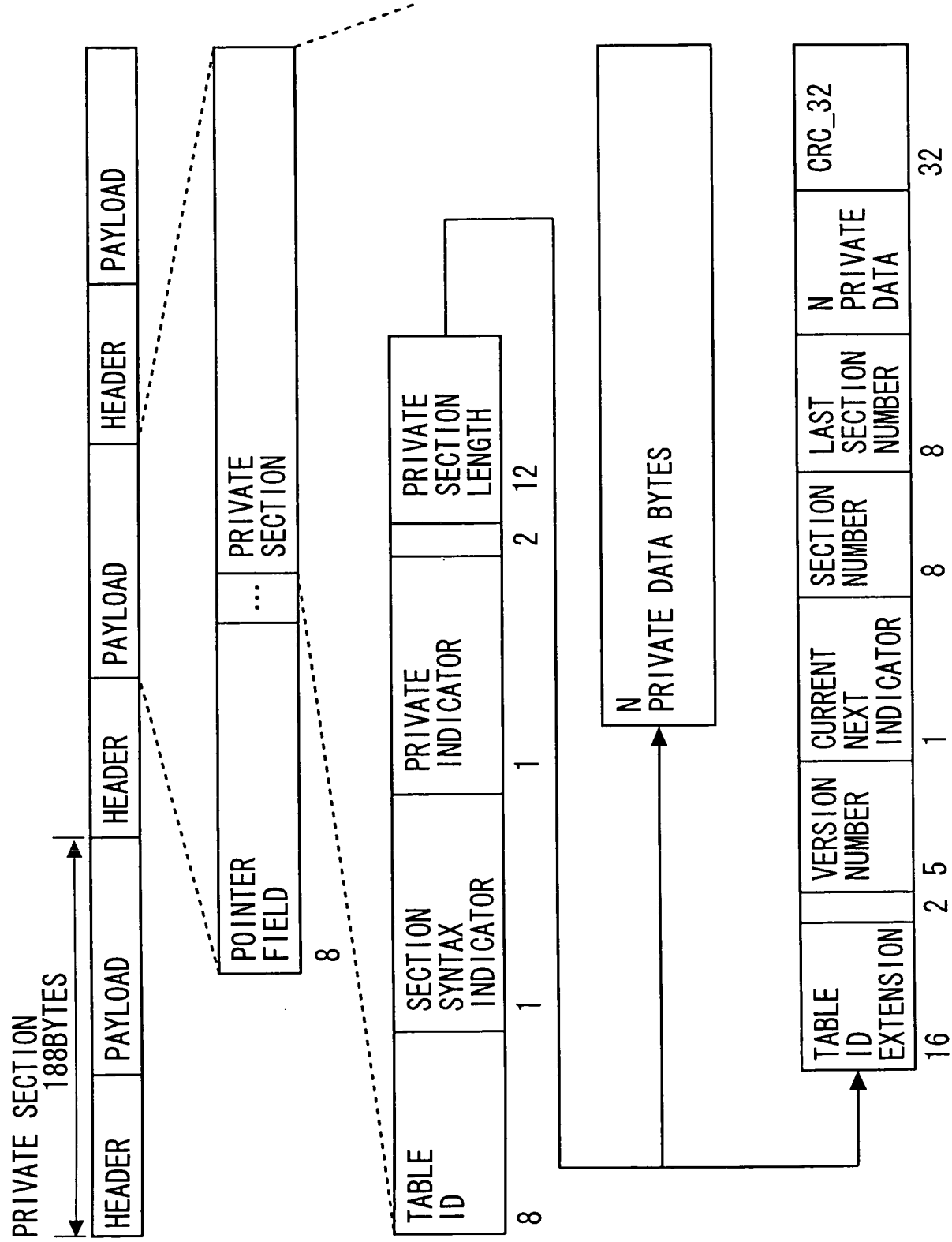


FIG. 17

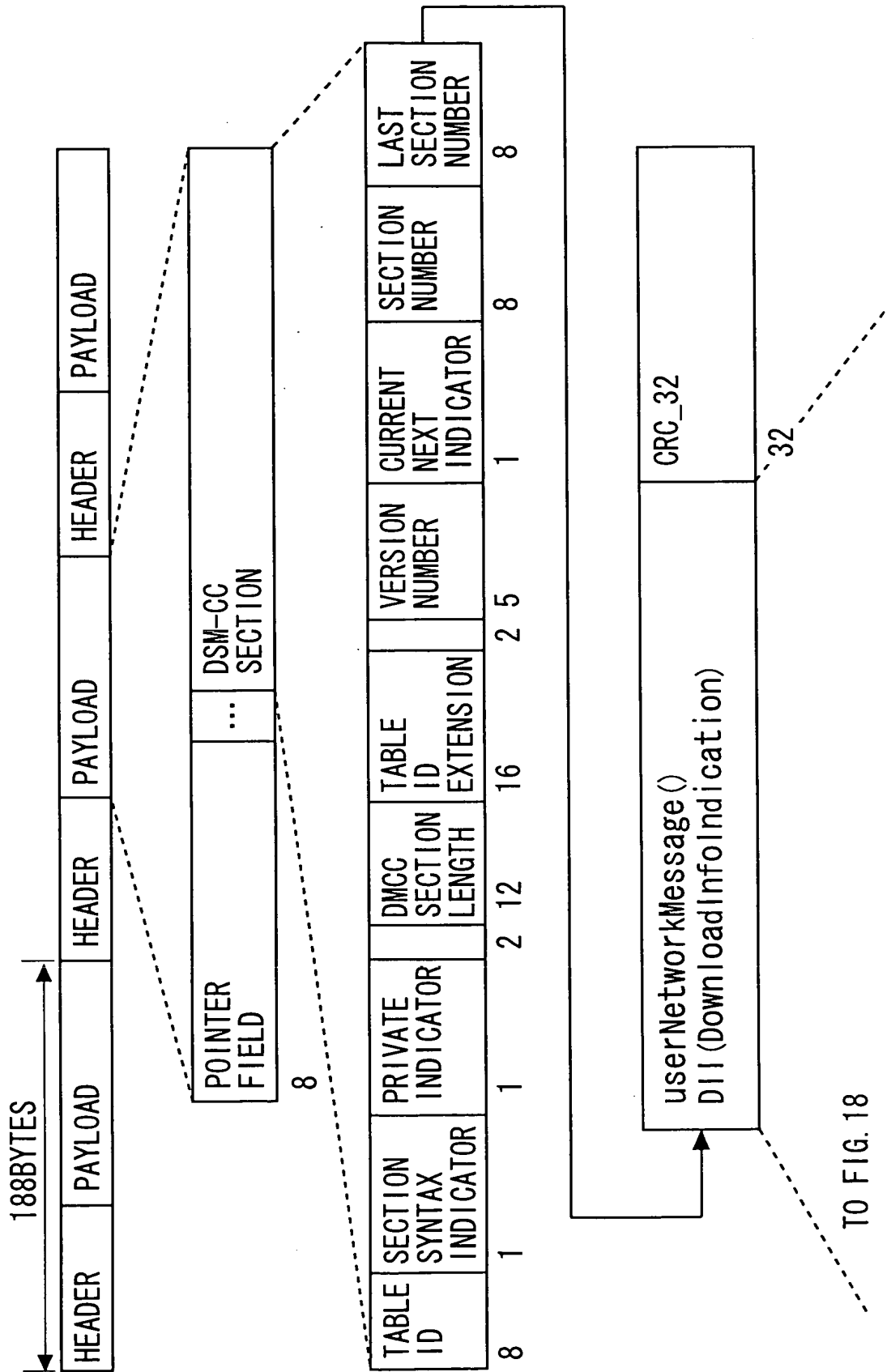


FIG. 18

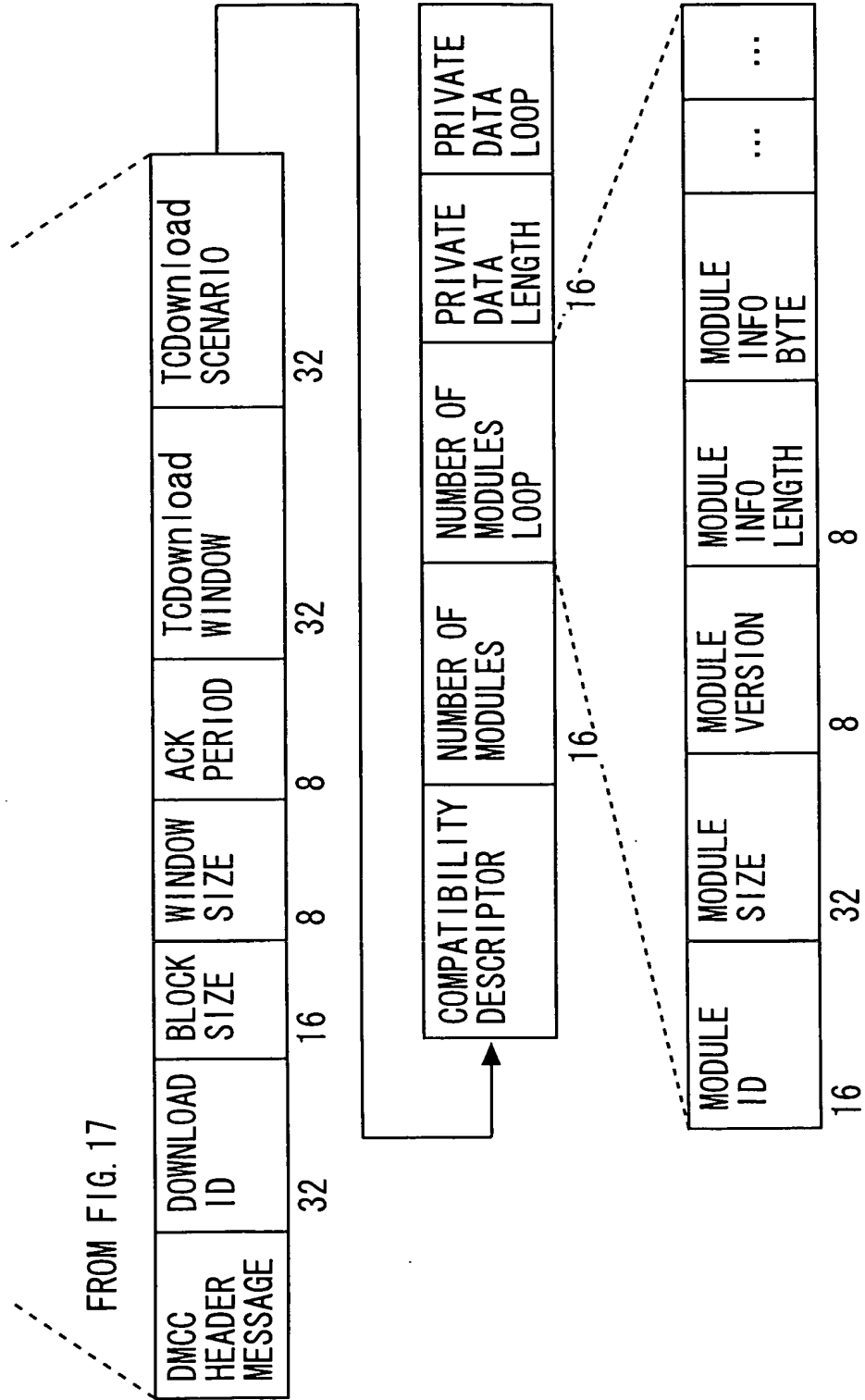


FIG. 19

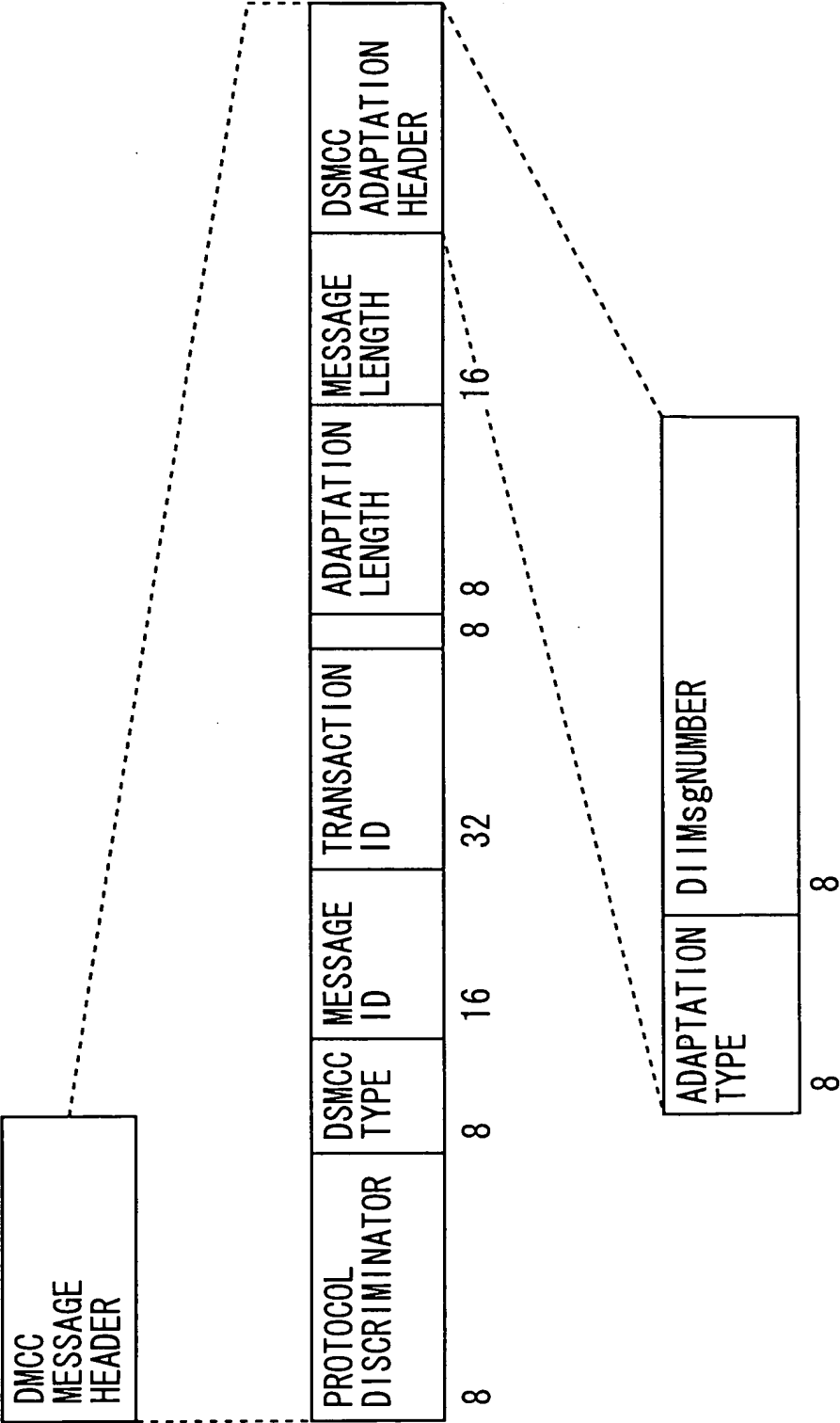


FIG. 20

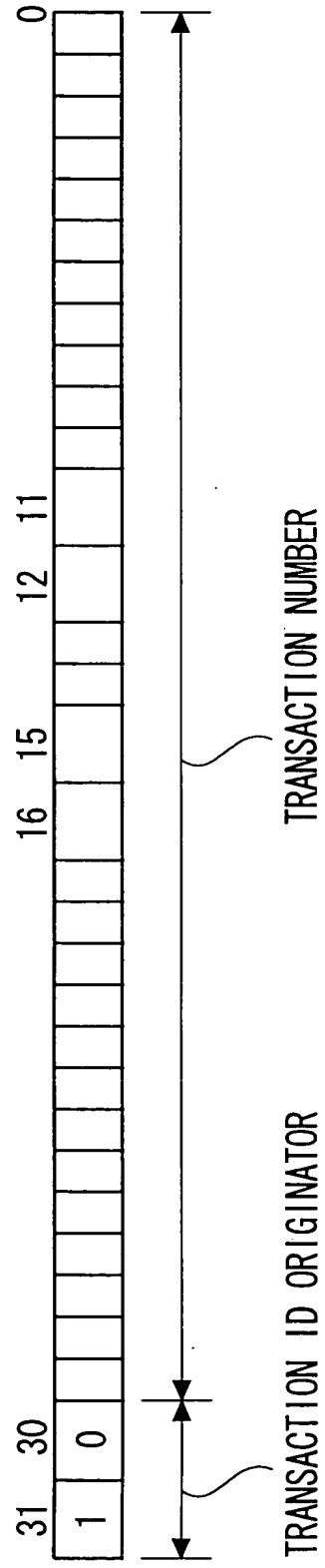
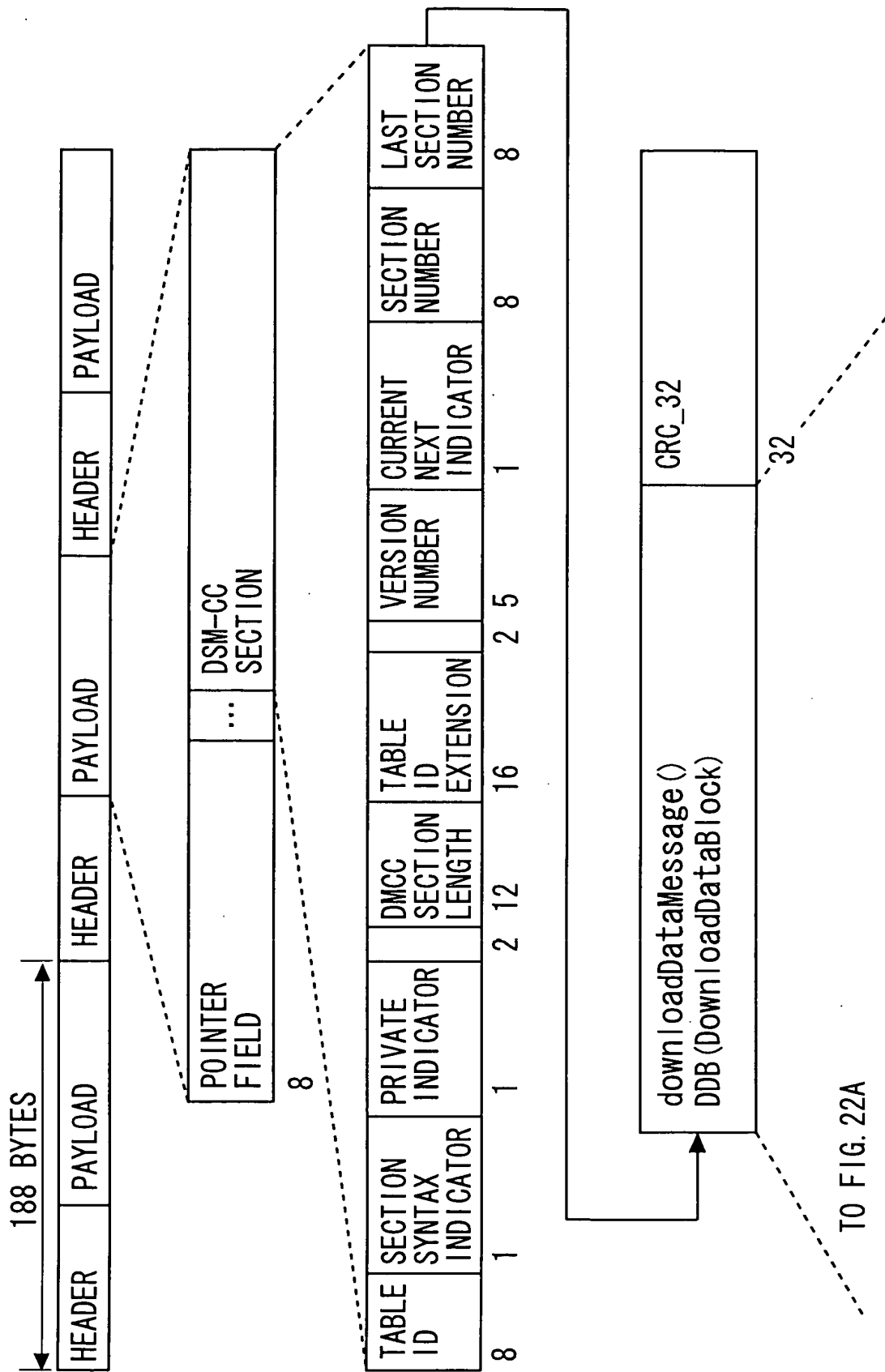


FIG. 21



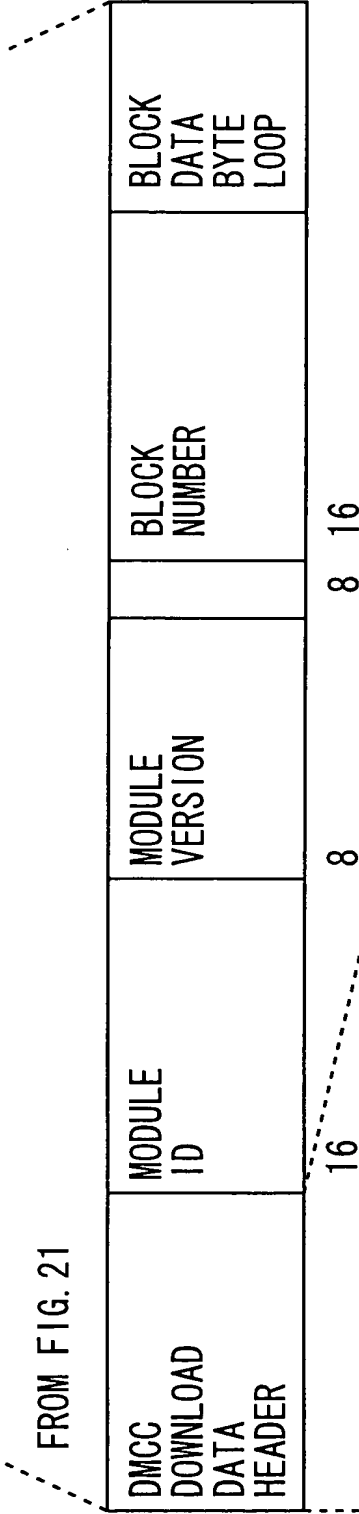


FIG. 22A

DATA STRUCTURE OF DownloadDataBlock

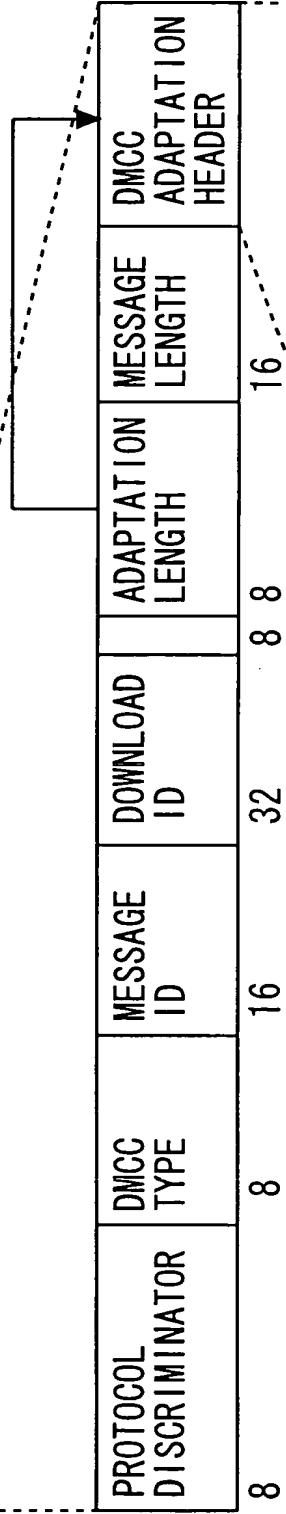


FIG. 22B

DATA STRUCTURE OF dsmccdownloadDataHeader

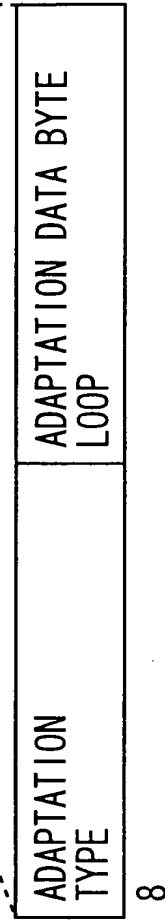


FIG. 22C

DATA STRUCTURE OF dsmccAdaptationHeader

FIG. 23A

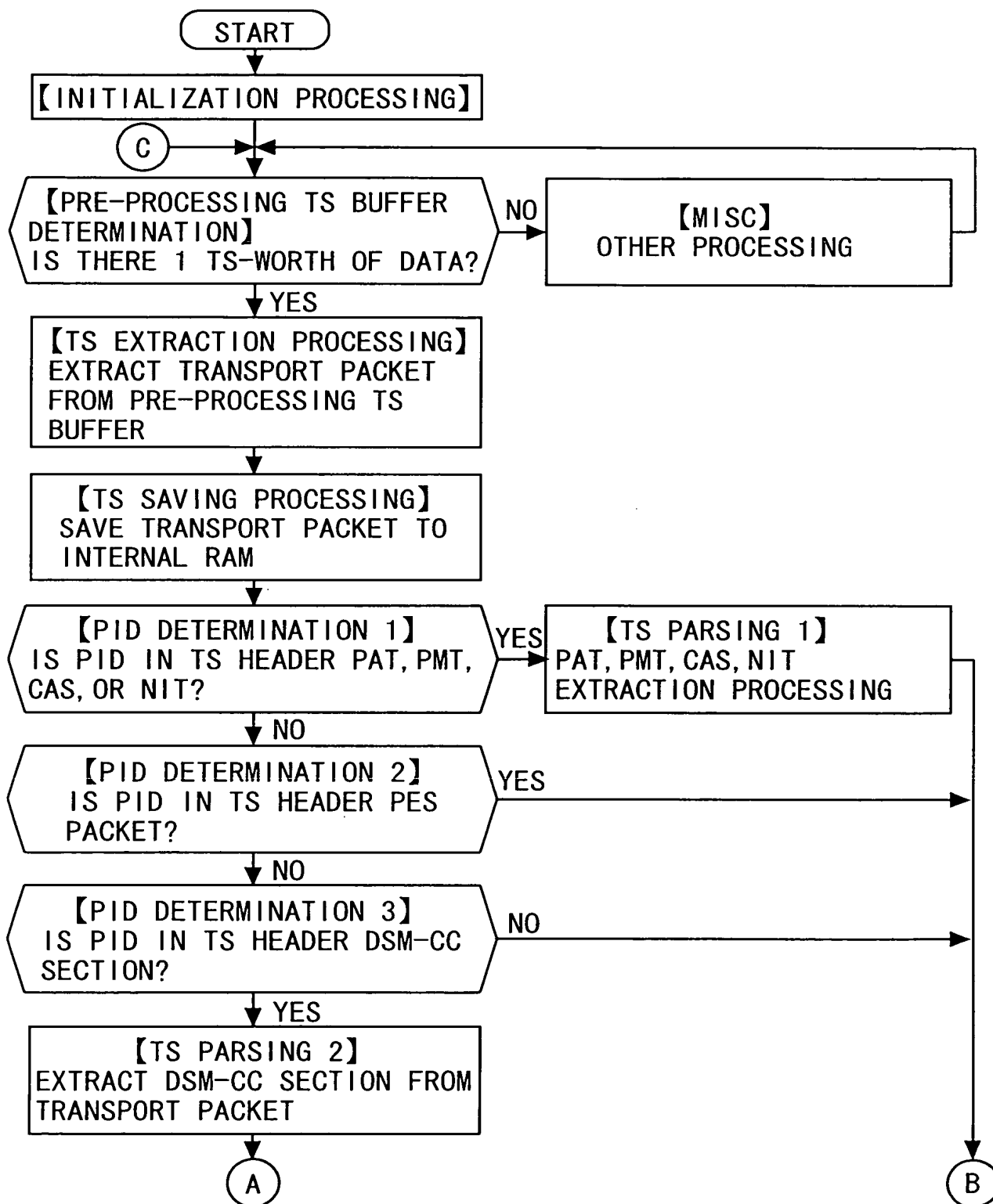


FIG. 23B

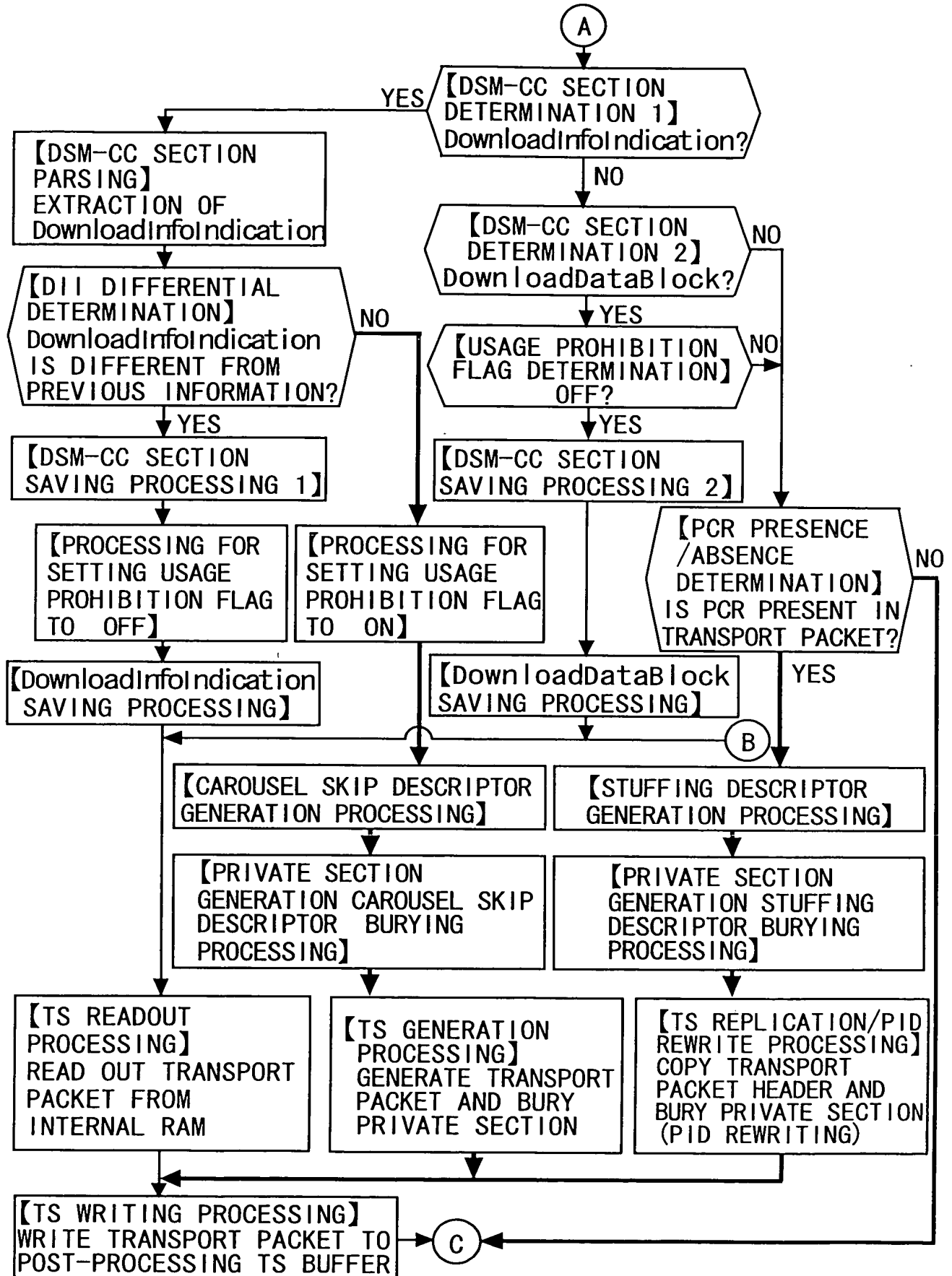


FIG. 24A

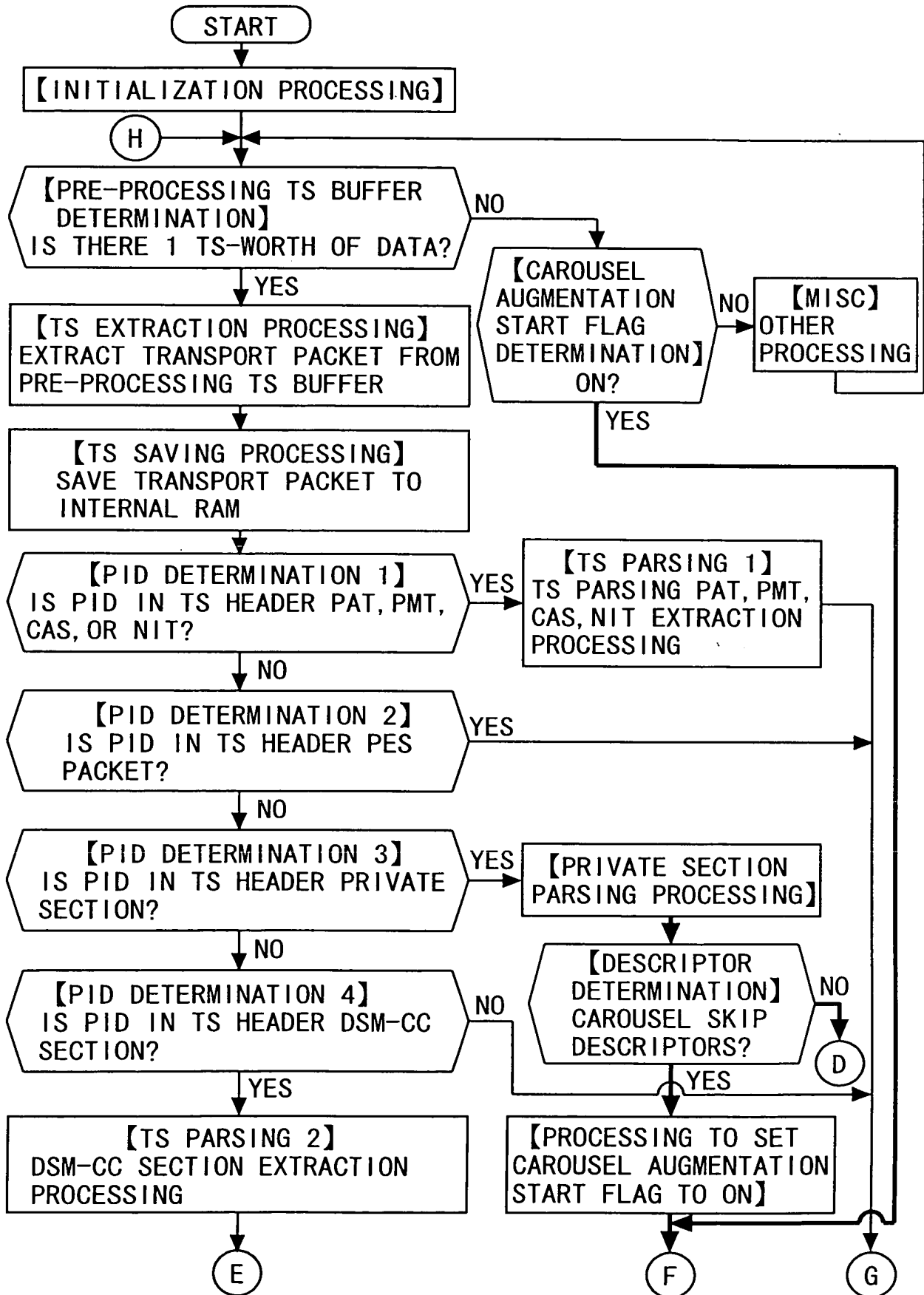


FIG. 24B

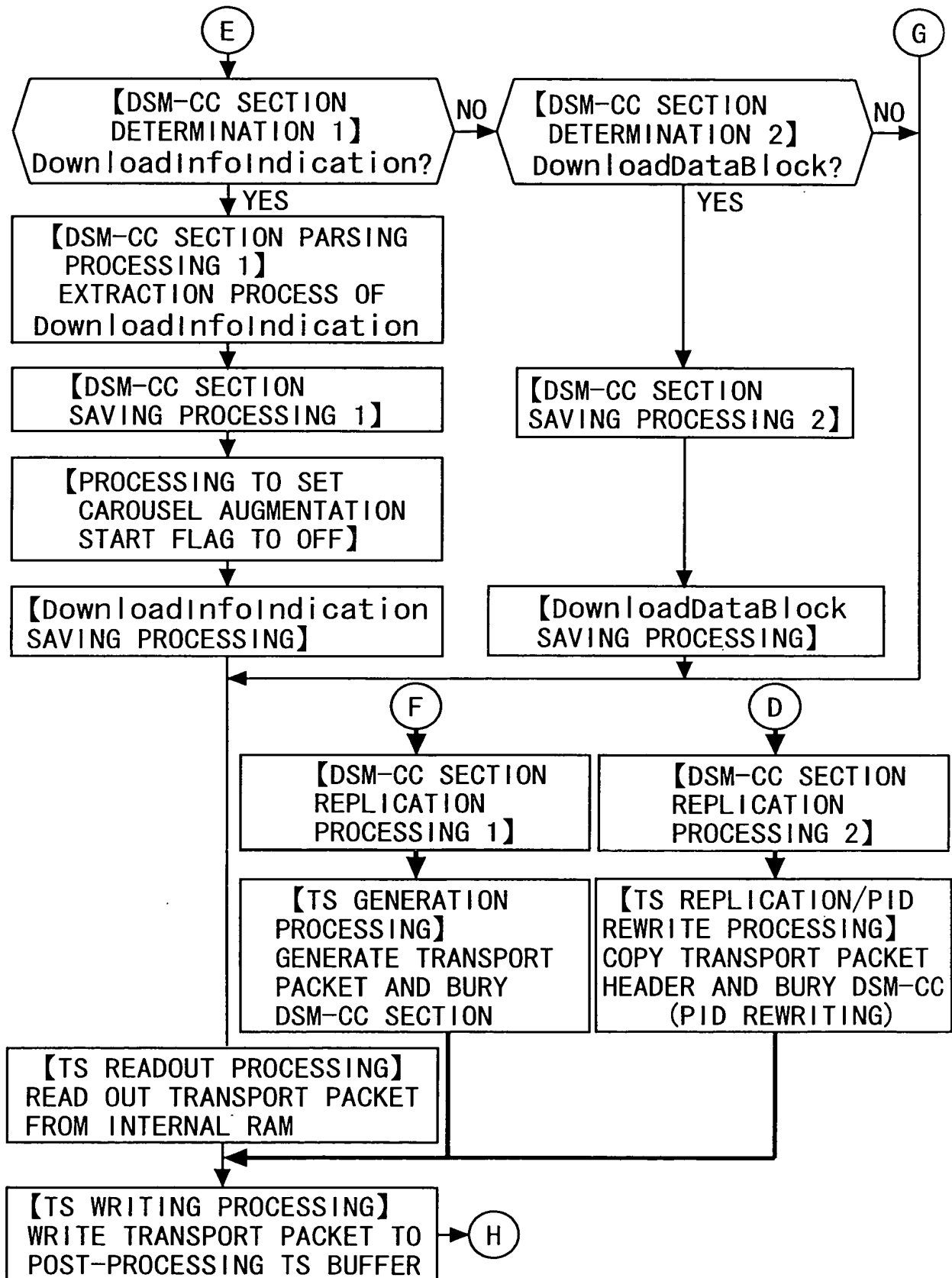


FIG. 25

3, 4 DIGITAL BROADCAST MATERIAL TRANSMITTER

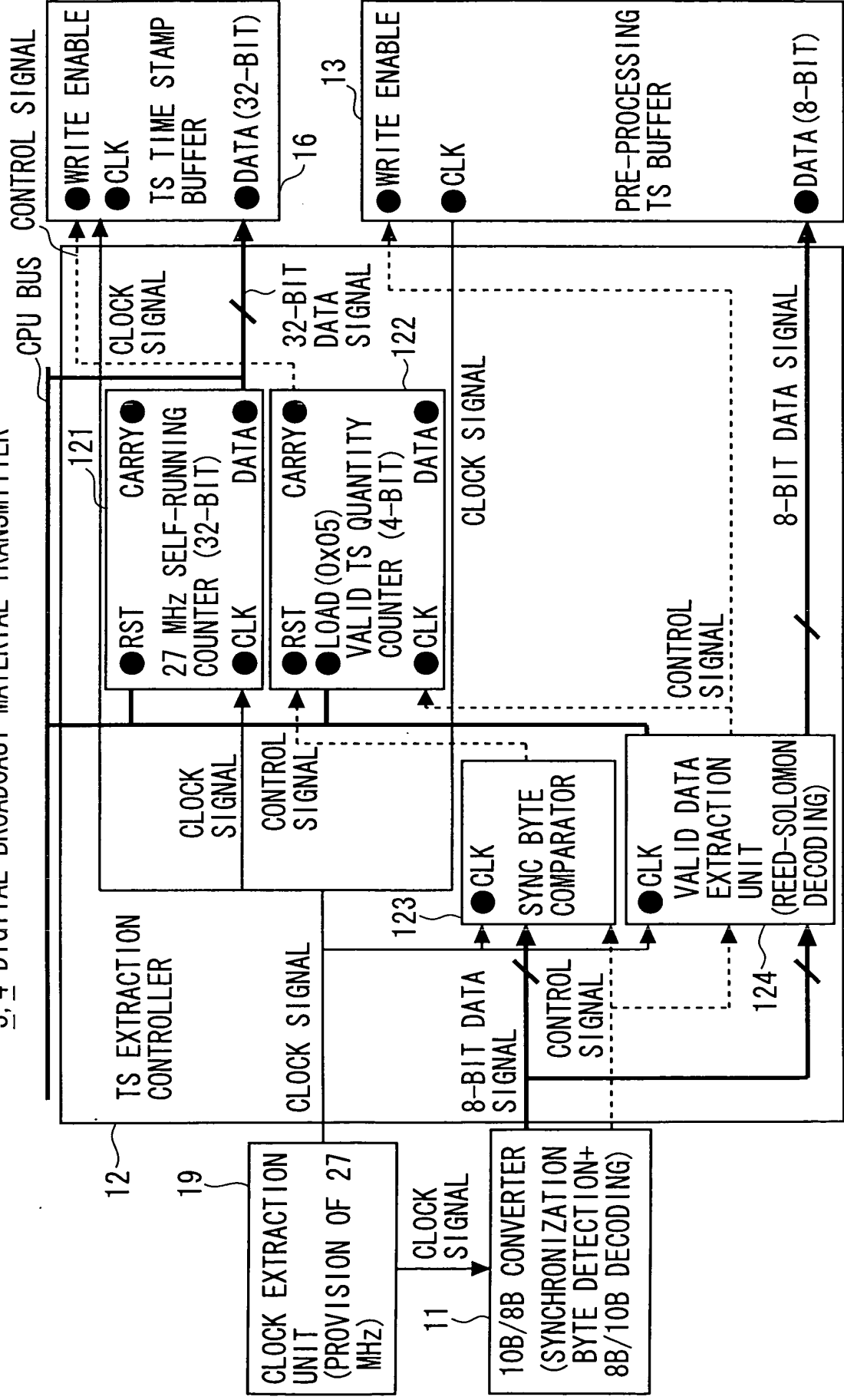


FIG. 26

